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COMMUNITY FACILITIES PLAN AND



PUBLIC IMPROVEMENTS PROGRAM



GLEN ALPINE, NORTH CAROLINA

ABSTRACT

TITLE Community Facilities Plan and Public Improvements Program,
Glen Alpine, North Carolina

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Tentative Project Schedule

DATE September, 1968

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ABSTRACT The wide range of community facilities in Glen Alpine, N.C.,
and the one-mile fringe area are surveyed and analyzed in
order to determine the adequacy of the facilities now and
during the 20-year planning period -- 1968-1987. Existing
facilities and services provided by the town and, to a lesser
degree, by the county, state, and private organizations are
included in this report. Individual sections of the report
deal with specific facilities such as municipal water and
sewer, fire and police protection, streets, medical facilities,
and education. The surveys of existing facilities are compared
with accepted standards; existing facilities are analyzed and
evaluated in relation to the standards and projected needs; and
recommendations are made for improving the community's facil-
ties and services. The second section of the report is the
Public Improvements Program. The needs of the community are
gathered from the Community Facilities Plan and from other
sources, and programmed for implementation during the 20-year
planning period in periods of four years, five years, and ten
years.

Community Facilities Plan

Community Facilities Plan and Public Improvements Program

Glen Alpine, North Carolina

Planning Commission

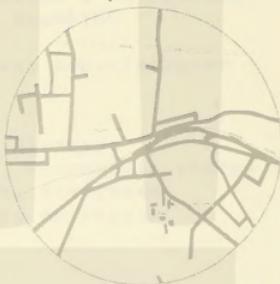
Community Improvement District

COMMUNITY FACILITIES PLAN AND



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PUBLIC IMPROVEMENTS PROGRAM



GLEN ALPINE, NORTH CAROLINA

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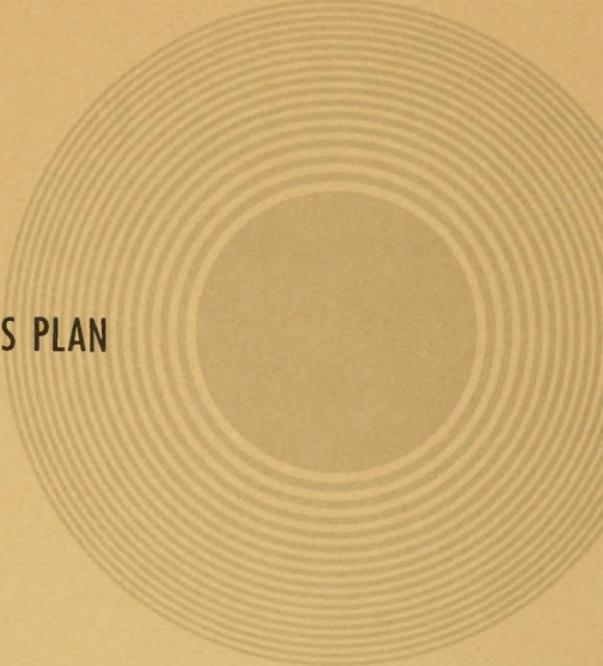
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COMMUNITY FACILITIES PLAN



INTRODUCTION

The purpose of the Community Facilities Plan is to appraise the existing public facilities and services and plan for their future development within the Glen Alpine Planning Area. The term "community facilities", as used here, includes those functions and services financed or supported by public money which require extensive capital outlay and a responsible administrative organization. More detailed attention is given to those facilities and services for which the Town of Glen Alpine is responsible; however, to have the comprehensive overview desired, certain services not provided by the town are also evaluated.

SCOPE

For the purpose of analysis the community facilities and services of the Planning Area have been divided into the following major categories:

Protective and Convenience Services. The Town Hall, fire and police departments, civil defense, rescue squad and health facilities.

Public Works and Utilities. The water system, street construction and maintenance, refuse collection and disposal, and the town garage and storage yards.

Social and Cultural Services. The public schools, the town parks and recreation program and the library. While the schools and the library are not financed or administered by the town, they do contribute to the public welfare.

METHODOLOGY

An inventory of existing facilities and services available, and statements relative to the deficiencies and problems from the person or persons most directly associated with the facility or service under study, provided the basis of this study. A list of recommended actions, tailored to Glen Alpine, was compiled after comparison with relevant State and/or National standards to determine adequacy now and during the 20-year planning period.

POPULATION

Glen Alpine has experienced period of rapid growth and periods of slower growth, but always some growth. Since 1950 there has been an increasing rate of growth. The 1960 population of 734 and the 1967 estimated population of 816 give further credence to the anticipated population of 964 by the end of the 20-year planning period. The following information was taken from the Population and Economy Study, September, 1967. (Land capacity and capability were also considered.)

TABLE A POPULATION TRENDS AND PROJECTIONS

Year	Glen Alpine	One-Mile Fringe Area	Planning Area
1900	137		
1910	308		
1920	346		
1930	529		
1940	665		
1950	695		
1960	734		
1967 ^{1/}	816	1,320	2,136
1977 ^{2/}	894	1,447	2,341
1987 ^{2/}	964	1,561	2,525

Source: U. S. Bureau of the Census unless otherwise noted.

^{1/} Estimate, Division of Community Planning

^{2/} Projection, Division of Community Planning

PROTECTIVE AND CONVENIENCE SERVICES

TOWN HALL

The present Town Hall is a combination town-hall and fire station built in 1956. It is located on Pitt Street just behind the Post Office and occupies a site of about 3,000 square feet. The building is about 32 feet long and 30 feet wide, and has two bays for fire trucks. An area of about 100 square feet is set aside for use by the Water, Street, and Sanitation Departments, and the Town Clerk-Tax Collector. While the building is adequate for the fire department, it and its site are not adequate for carrying out the town's business. Off-street parking facilities are presently adequate as part of the Post Office parking area can be used by the Town Hall.

Recommendations. Expand the present site by at least another 3,000 square feet and build a Town Hall Annex with enough space for two additional offices and a conference room to seat about 40 to 50 people by 1975. Sufficient vacant land is adjacent on the east of the present site for expansion and off-street parking (See Map 1.) The present Town Hall segment of the existing building can be utilized by the police and fire departments for records, equipment and office space.

FIRE DEPARTMENT

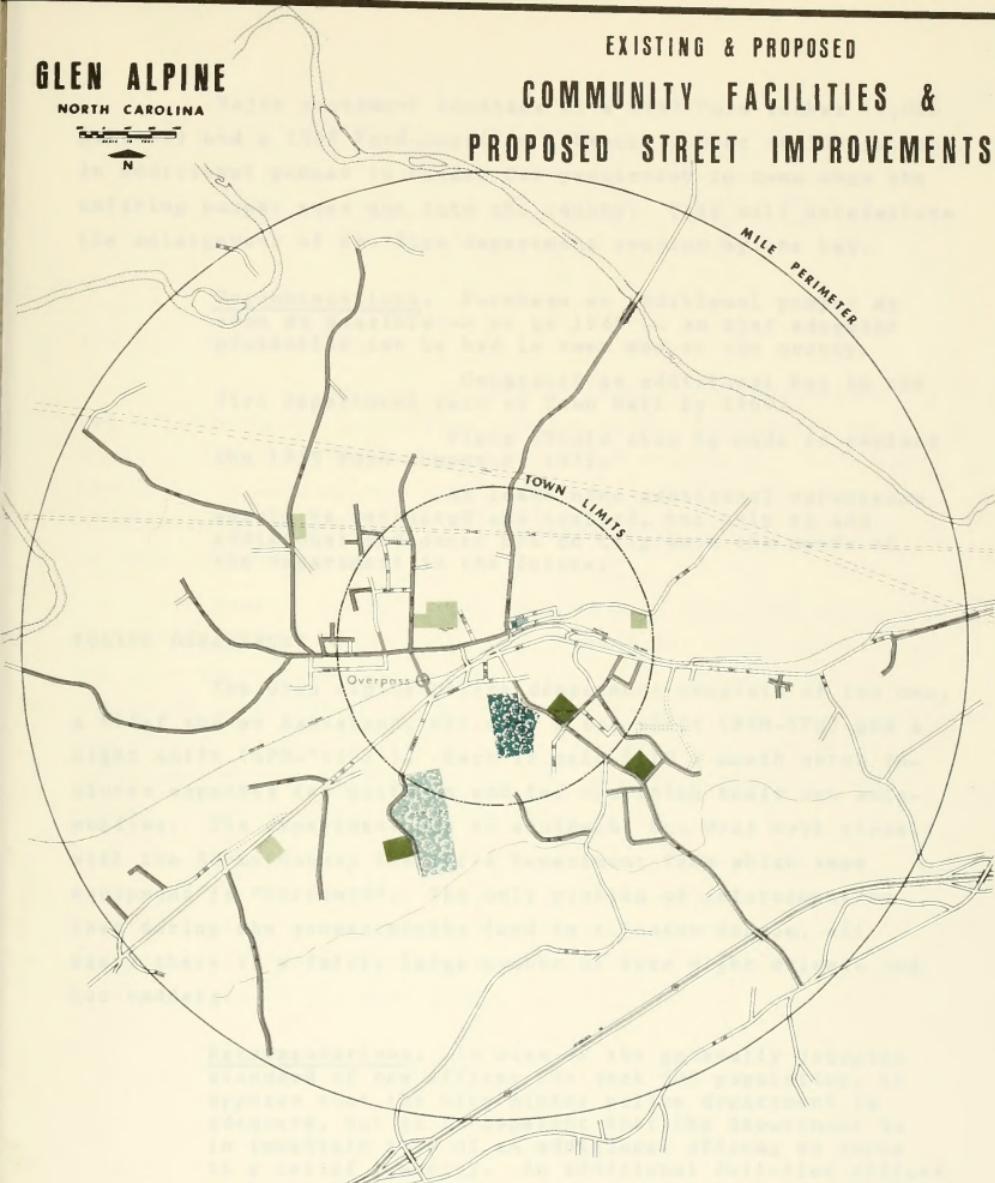
The Glen Alpine Volunteer Fire Department is located in the Town Hall. It was organized in 1949 and serves the western part of Burke County in addition to Glen Alpine. The unit has a National Bureau of Fire Underwriters rating of 9. There are ten volunteer members who meet every Tuesday night and attend a 12-hour course each year at the Burke County Fire School. The number of members is low and additional members should be recruited as soon as possible. The fire department receives \$800 per year from the county and about \$300 (or more as needed) from the town. Other financial support comes from the sale of fire extinguishers.

GLEN ALPINE

NORTH CAROLINA



EXISTING & PROPOSED COMMUNITY FACILITIES & PROPOSED STREET IMPROVEMENTS



Proposed Existing

■	Town Hall and Fire Station
■	Schools
■	Recreation
—	Streets to be paved, widened and/or extended by 1987

Major equipment consists of a 1947 Ford tanker (1,000 gallons) and a 1959 Ford-American LaFrance pumper of 500 gallons. An additional pumper is needed for protection in town when the existing pumper goes out into the county. This will necessitate the enlargement of the fire department section by one bay.

Recommendations. Purchase an additional pumper as soon as possible -- or by 1969 -- so that adequate protection can be had in town and in the county.

Construct an additional bay in the fire department part of Town Hall by 1969.

Plans should also be made to replace the 1959 Ford pumper by 1979.

At least nine additional volunteers should be recruited and trained, not only to add additional personnel but to help meet the needs of the department in the future.

POLICE DEPARTMENT

The Glen Alpine police department consists of two men, a Chief and an Assistant, who work a day shift (8AM-6PM) and a night shift (6PM—"till"). Each is paid \$110 a month which includes expenses for uniforms and for operating their own automobiles. The department has no equipment but does work closely with the Burke County Sheriff's Department from which some equipment is "borrowed". The only problem of enforcement is that during the summer months (and to a lesser degree, all year) there is a fairly large number of late night drivers and hot rodders.

Recommendations. In view of the generally accepted standard of one officer for each 500 population, it appears that the Glen Alpine police department is adequate, but it is apparent that the department is in immediate need of an additional officer to serve in a relief capacity. An additional full-time officer to bring the department to four will be needed by 1980. Salaries should also be increased to make the job more attractive.

The lack of equipment will cause more enforcement problems in the near future. The necessary equipment can be procured over a period of several years. The following should be acquired by 1971: a town police car equipped with a two-way radio; a speed detection device; other minor equipment to modernize the police department.

CIVIL DEFENSE, RESCUE SQUAD AND HEALTH FACILITIES

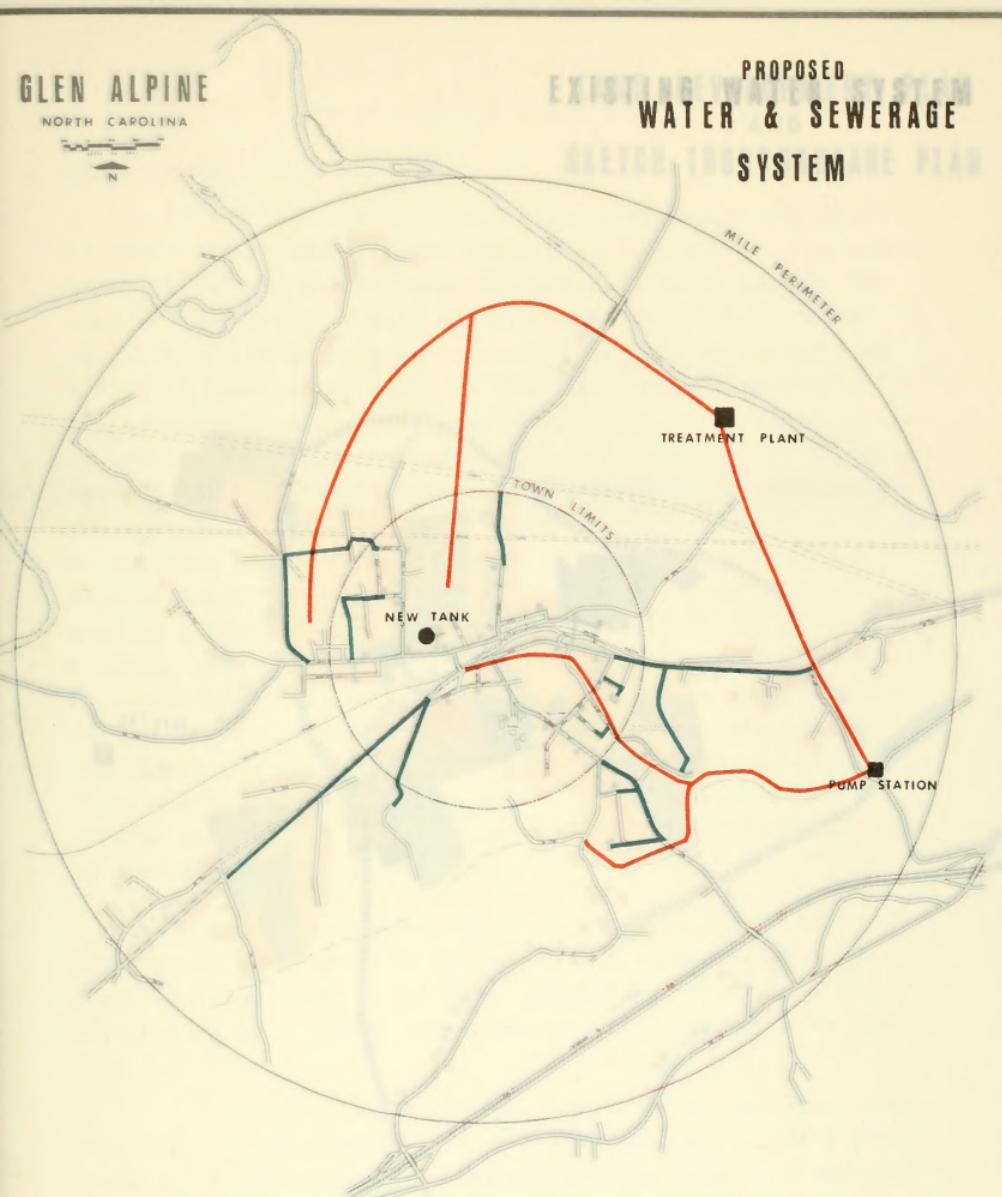
A Civil Defense program is basically non-existent, but a radiological monitoring station and a 110-220-440 volt semi-stationary gas-driven generator are available. No further equipment is needed, but a program for informing the people of protective measures and the establishment of shelters should be undertaken.

Rescue and ambulance service must come from Morganton, about five miles to the east. The demand for these services in the area is limited, but a rescue squad or ambulance service should be established in the very near future to provide immediate service to the community. Glen Alpine is the better location for answering emergency calls in the western portion of the county -- particularly the Lake James area.

The nearest hospital is located in Morganton and appears to serve the area adequately. A doctors' clinic is located in town and provides some emergency care. No hospital or similar facility is expected to be needed in the Glen Alpine Planning Area in the next 20-years.

GLEN ALPINE
NORTH CAROLINA

PROPOSED
WATER & SEWERAGE
SYSTEM



LEGEND

- NEW OR LARGER WATER LINES
- SEWER OUTFALL MAINS (POSSIBLE LOCATIONS)
- WATER MAINS
- WATER MAILS
- WATER SEAMS
- WATER MAILS
- 75,000 GAL. ELEV. TANK
- HYDRANTS
- WELLS AND PUMPS

WATER & SEWERAGE
SYSTEM

GREEN ALPINE
NORTH CAROLINA
N

TREATMENT PLANT

POWS STATION

NEW TANK

FEEDING

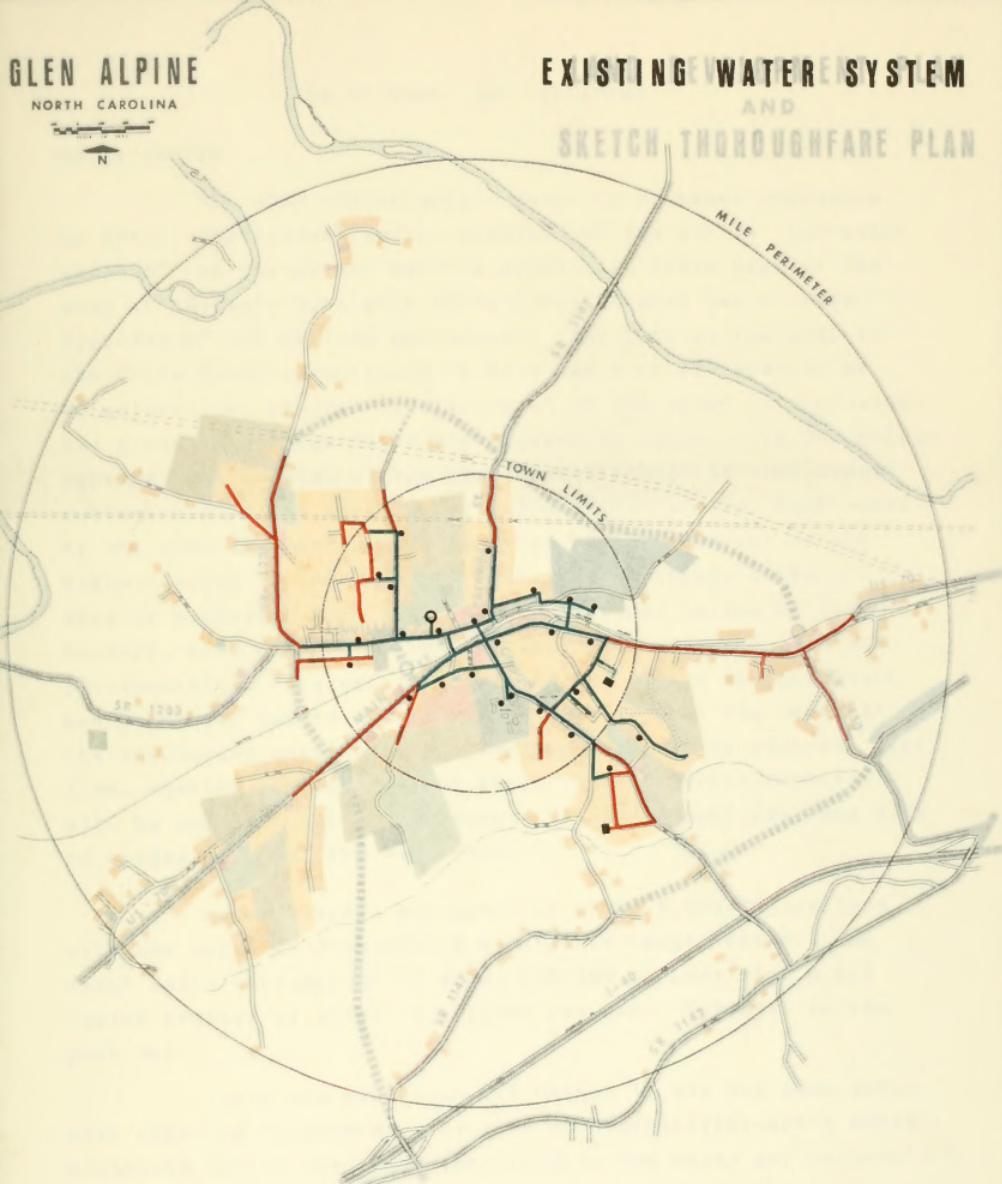
NEW OR LARGER WATER LINES

SEWER OUTLET MAINS (PROPOSED LOCATIONS)

GLEN ALPINE

NORTH CAROLINA

EXISTING WATER SYSTEM AND SKETCH THOROUGHFARE PLAN



DEVELOPMENT BY YEAR 1987

EXISTING - PROPOSED

LEGEND

RESIDENTIAL - DENSITY:

LOW - LOW DENSITY	6" WATER MAINS
MEDIUM - MEDIUM DENSITY	4" WATER MAINS
HIGH - HIGH DENSITY	2" WATER MAINS
MANUFACTURING	1 1/4" WATER MAINS

EXISTING

LEGEND

THOROUGHFARES

MINOR THOROUGHFARE

MAJOR THOROUGHFARE

PROPOSED

○ 75,000 GAL ELEV. TANK

● HYDRANTS

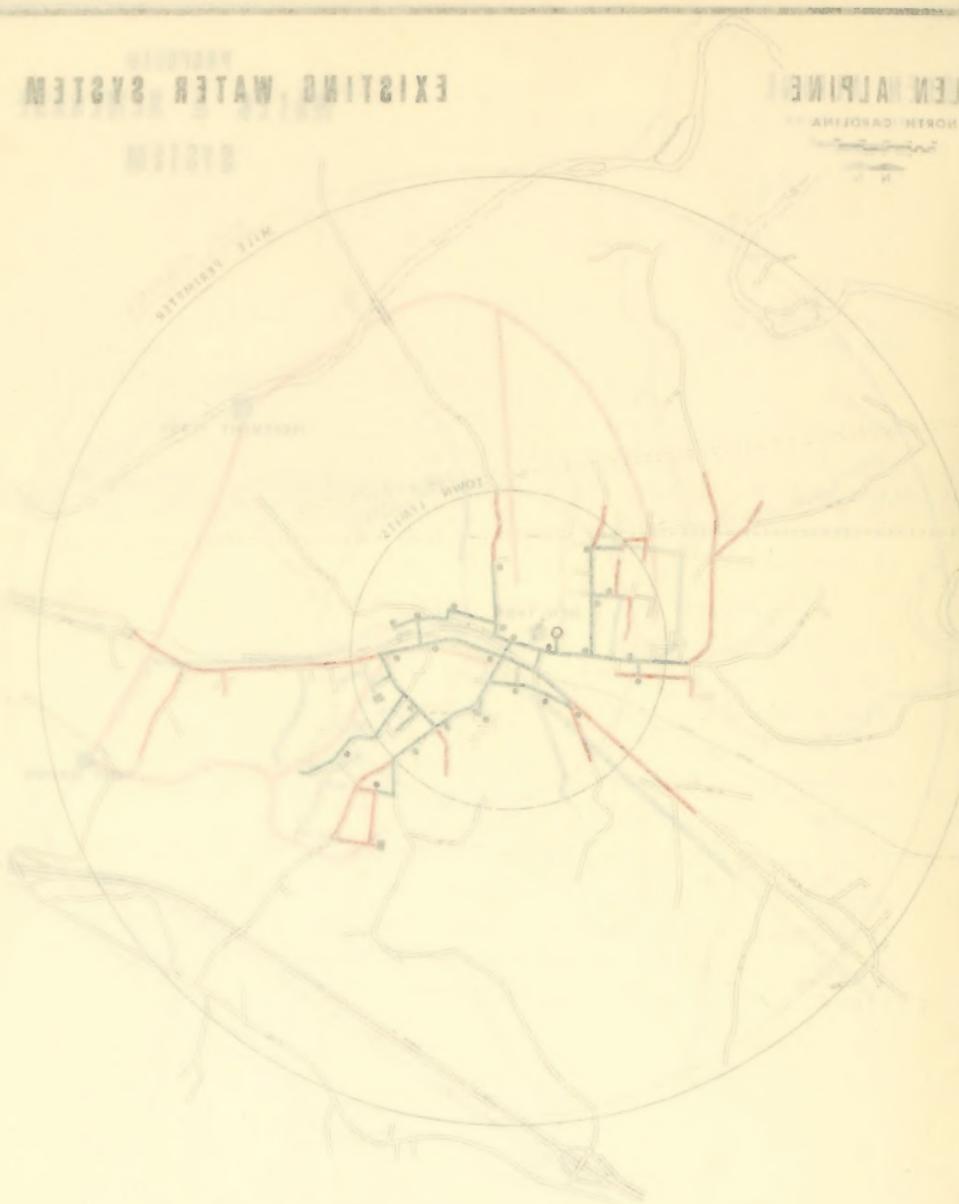
NOTE: UNCOLORED AREAS ARE FOR DEVELOPMENT

■ WELLS AND PUMPS 87

MAP-3

EXISTING WATER SYSTEM

LEIN ALPINE
NORTH GARDEN



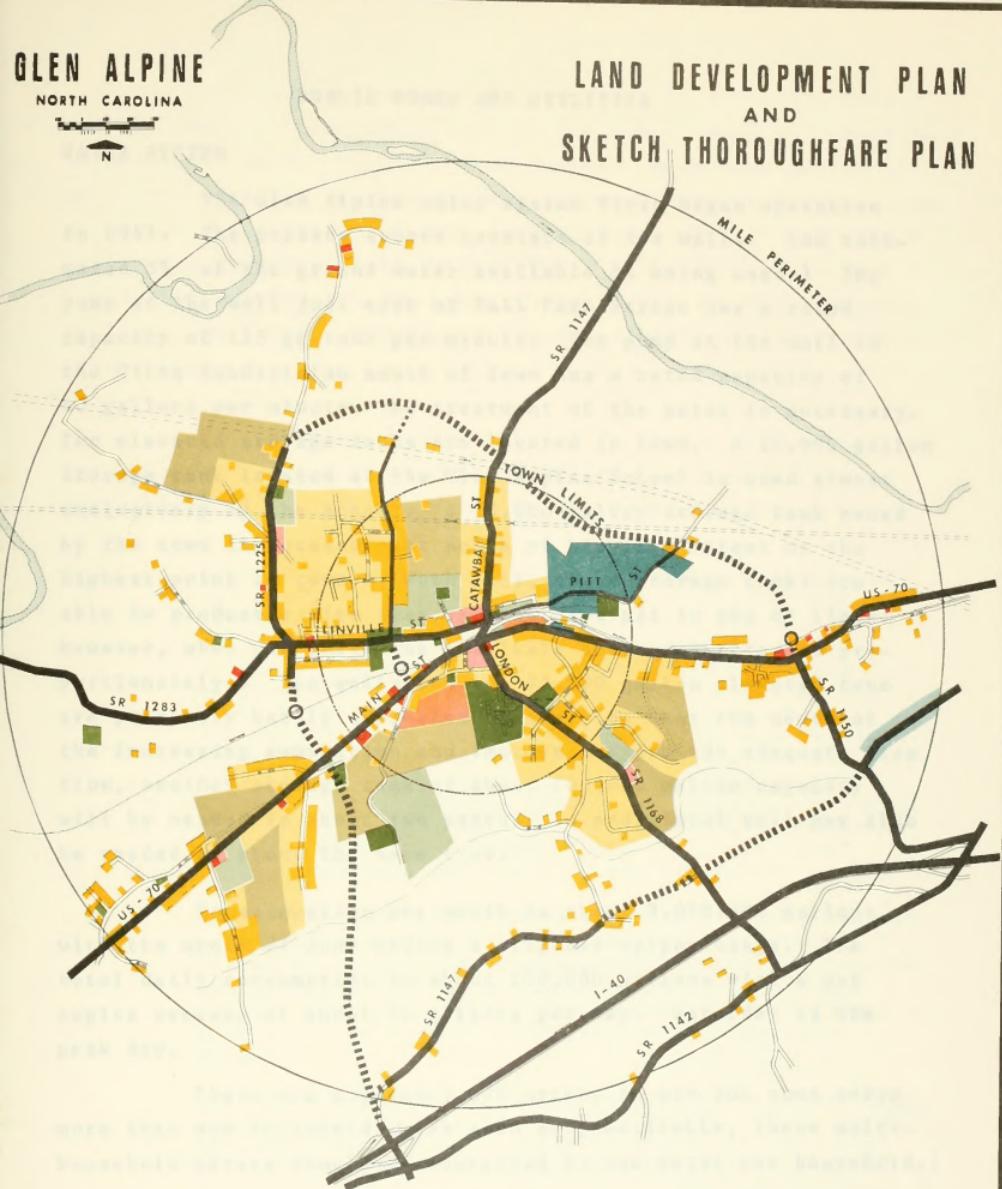
LEGEND	
○	25,000 GAL STEE TANK
—	6" WATER MAINS
—	4" WATER MAINS
■	HYDRANTS
■	WELL AND PUMPS
■	12" WATER MAINS

GLEN ALPINE

NORTH CAROLINA



LAND DEVELOPMENT PLAN AND SKETCH THOROUGHFARE PLAN



DEVELOPMENT BY YEAR 1987

EXISTING PROPOSED

LEGEND

RESIDENTIAL - DENSITY :

- LOW - LONG RANGE
- LOW TO MEDIUM - SHORT RANGE
- MULTI-FAMILY - PUBLIC HOUSING
- RETAIL SERVICES
- SOCIAL, CULTURAL & GOVERNMENTAL
- MANUFACTURING

EXISTING

MINOR THOROUGHFARE

THOROUGHFARES

PROPOSED

MAJOR THOROUGHFARE

GRADE SEPARATION



NOTE: UNCOLORED AREAS ARE FOR DEVELOPMENT
AFTER YEAR 1987.

PUBLIC WORKS AND UTILITIES

WATER SYSTEM

The Glen Alpine water system first began operation in 1947. The present source consists of two wells. (An estimated 5% of the ground water available is being used.) The pump at the well just east of Ball Park Street has a rated capacity of 125 gallons per minute. The pump at the well in the Giles Subdivision south of town has a rated capacity of 40 gallons per minute. No treatment of the water is necessary. Two elevated storage tanks are located in town. A 10,000 gallon storage tank located at the Glen Alpine School is used almost exclusively by the school. A 75,000 gallon storage tank owned by the town is located just north of Linville Street on the highest point in town. (When full, these storage tanks are able to produce a fire flow of about 300 psi in the 6" lines; however, when not full, the available pressure decreases proportionately.) The wells and the 75,000 gallon elevated tank are presently barely adequate; however, to meet the needs of the increasing population and improve and provide adequate fire flow, another storage tank of about 100,000 gallon capacity will be needed in about two years. An additional well may also be needed at about the same time.

Consumption per month is about 3,000,000 gallons with the month of June having a slightly larger usage. The total daily consumption is about 100,000 gallons with a per capita average of about 75 gallons per day. Saturday is the peak day.

There are presently 376 meters in use but some serve more than one household. (As soon as practicable, these multi-household meters should be converted to one meter per household.)

Most water lines in town are 6", but there are some 2" and 1½" lines -- especially outside the town. (Map 2.) Fire flow is generally good. The town does not have a written policy on extension of lines outside of town. This should be done as soon as possible. A policy of new lines not less than 6" tying into the system should also be established. Allowing smaller than 6" lines will necessitate the town having to pay the added expense of installing larger lines at a later date when it annexes certain areas.

No equipment is available other than a pick-up truck for the department. Personnel is limited to one man who also runs all other activities in the public works section.

Recommendations. The following recommendations are not based on detailed engineering studies. They are, however, based on knowledge of the present system and anticipated future demand. The Division of Community Planning, after consultations with and general advice from the town's consulting engineer, W. K. Dickson & Company, Inc., Charlotte, N. C., arrived at these recommendations. They are based on present inadequacies and on expected general development trends, as exhibited in the Population and Economy Study, Land Use Survey and Analysis, and Land Development Plan. Engineering surveys and analysis will be needed to determine more accurately the future locations and sizes of the facilities needed.

By 1971 an additional 100,000 gallon elevated storage tank and possibly a new well should be installed. (Detailed engineering studies will need to be carried out prior to any installation of wells or storage tanks.) Probably the best site for the new storage tank would be near the present tank off Linville Street.

The following line improvements are for both new lines and lines to improve the present system. None of the specific improvements suggested should be installed without review and approval of the town's consulting engineers. Map 2 is an overlay of the Land Development Plan Map and shows the existing and proposed water lines for the Planning Area. (This allows for comparison of the water system recommendations and the Land Development Plan.)

- a 6" main from the well in the Giles Subdivision eastward to SR 1168 then northward in SR 1168 to tie in with the existing 6" main at the town limits. (This replaces an existing 2" line.)
- a 6" main from the 6" main in the Giles Subdivision eastward to tie in with the proposed 6" main on SR 1168. (This replaces an existing 2" line.)
- a 6" main from the 6" main on Giles Street north-eastward to tie in with the 6" main on Allen Street.
- a 6" main from the well off Ball Park Street north-eastward to tie in with the 6" main on Ball Park Street.
- a 6" main from the 6" main at the intersection of Main and Ball Park Streets eastward to SR 1150. (This replaces an existing 2" line.)
- a 6" main from the end of the 6" main on Allen Street Extension northward to the proposed 6" main along US 70. The exact location will be determined by development in the area.
- a 6" main from the 6" main in Catawba Street northward in Catawba Street to the town limits. (This replaces an existing 2" line.)
- a 6" main from the end of the 6" main in Bright Street westward in Bright Street Extension to the intersection of a new street and then southward in the new street and beyond to tie in with the 6" main in Linville Street. (This in part replaces an existing 2" line.)
- a 6" main from the end of the 6" main on Parker Street westward to Lail Road (SR 1225) then southward in Lail Road to tie in with the 6" main at the intersection of Lail Road and Linville Street. (This in part replaces an existing 2" line.)
- a 6" main from the 6" main at the intersection of Main and Hennessee Streets westward along US 70 (Main Street) to a point near SR 1145. (This in part replaces an existing 2" line.)
- a 6" main from the 6" main at the intersection of Main and Hennessee Streets southward along Hennessee Street to the "school property." (This in part replaces an existing 2" line but will only be needed if the new high school is built in this location.)

In addition to the above, a new pickup truck will be needed when the cost of operating the present pickup truck becomes excessive.

SEWER SYSTEM

The town presently does not have a sewer system and to install one would be initially very expensive for a town of this size. However, by about 1975 it will be necessary to have installed some form of sewage disposal system. A thorough engineering study will be necessary to determine the location of such a system and the probable cost. Several possibilities exist -- among which would be the southern side of town and adjacent areas being tied in to an outfall line running along Little Silver Creek eastward to a Morganton City sewer line near States Industries. The remainder of town north of the railroad will have to be served by several outfall lines running north toward the Catawba River with an interceptor line and treatment plant near the river (Map 2). Probable cost would be in excess of \$500,000. Part of this may be obtained through a loan or grant from the Federal Government. (The Farmer's Home Administration has a program known as "Financial Assistance to Small Towns and Rural Groups" which can grant up to 50% for sewer systems.)

STREET SYSTEM

There is no "street department" as such, but contracts for street work, including patching, are given to private contractors. The town has a little over seven miles of streets, the bulk of which are paved. However, most of the street maintained by the town and some of those maintained by the State Highway Commission (such as Pea Ridge Street) are not wide enough (either in pavement or right-of-way width).

Financing of street improvements is by Powell Bill Funds (\$3,100 last year) and the Town General Funds (\$1,900 last year). No sidewalks have been installed in recent years

and some of those now in existence are in need of repair (e.g., along Church Street). There appears to be no policy on sidewalk installation. A policy on construction and maintenance of sidewalks should be instituted, particularly for sidewalks along those streets leading to the school.

Recommendations. To facilitate the present and future flow of vehicular traffic within the planning area, the thoroughfare plan (shown on the Development Plan) should be implemented, and the other needed improvements (Map 1) constructed in accordance with the schedule listed in the Public Improvements Program.

All extensions, paving, widening, etc., should be programmed in accordance with water and/or sewer improvements timing, and the streets should be widened to the required capacity and/or design standards stated in the Glen Alpine Subdivision Regulations.

The following improvements, as noted, should be made for the streets (and/or unsurfaced portions) indicated. (The order or priority is shown.)

- Relocate the Southern Railroad overpass.
- London Street (SR 1168) - widen to a 22-24 foot pavement cross section.
- Linville Street (SR 1223) - widen to a 22-24 foot pavement cross section.
- Catawba Street (SR 1147) - widen to a 22-24 foot pavement cross section.
- SR 1225 (Lail Road) - widen to a 22-24 foot pavement cross section.
- Pea Ridge Street (SR 1226) - widen and pave.
- Bright Street Extension - pave.
- Leonard Street - extend through to Linville Street and pave.
- Parker Street - widen and pave.
- Streets off Parker and Reep Streets - widen and pave.
- Ball Park Street - widen and pave.
- Allen Street - widen and pave.
- Allen Street Extension - widen and pave.

- New street off Ball Park Street - pave.
- Streets in the Giles Subdivision - pave.
- Hennessee Street Extension - pave.
- SR 1278 - pave.
- SR 1146 - pave.
- SR 1145 - pave.
- SR 1227 - pave.
- SR 1208 - widen and pave at least 2,500 feet of its length.
- All other short unpaved streets in town (such as those off Linville Street near Lail Road) or adjacent to the town should be widened and paved.

TOWN GARAGE AND STORAGE YARD

The town does not have a garage or storage yard. Part of the Clyde Orders property on Lail Road is being used. While this may be a satisfactory situation at the present time it nonetheless points out an arrangement that is by no means permanent and should be rectified at the earliest possible time.

It is recommended that the town acquire by 1971 sufficient property (about 1/4 acre) adjacent to and behind the present Town Hall for use as a storage yard, and that a shelter (for equipment) and fencing be erected around the property. The present policy of commercial garagemen doing the work on town equipment appears to be a sound one and there appears to be no reason to change during the 20-year planning program.

REFUSE COLLECTION AND DISPOSAL

Glen Alpine presently provides refuse collection once a week on Wednesdays for all homes and businesses in town. No service is provided to those outside the town limits. (It is understood that at present no one picks up refuse outside the town -- the owner of each house must haul it himself.) The equipment consists of one 1966 Ford 1-ton dump truck. The land-

fill site is about three miles west of town on St. Paul Church Road. Bought in 1966, it consists of eight acres of hills and hollows -- some 100 feet deep. Only about 1/4 of an acre has been used so far (compact and cover method) and it is expected to last at least 50 years at the present rate of fill. One man is hired on a part-time basis to help with the refuse collection.

Recommendations. Only one full-time person is employed by the town to be responsible for all public works activities. The one assistant for refuse collection is only part-time for that function. Therefore, it is recommended that another full-time employee be added immediately who can also assist in all departments. This will benefit the town in that he will learn the town's operations prior to the retirement of the present full-time employee. (Another person will be needed when the retirement takes place, to be hired as a full-time employee.) Refuse collections should be increased to twice a week. This should not necessitate an increase in personnel beyond the two full-time employees recommended.

No additional equipment is expected to be needed over the 20-year planning period. But the present 1966 Ford dump truck should be replaced sometime during the period. It is recommended that this unit be replaced with a packer truck and that replacement take place not later than 1981.

SOCIAL AND CULTURAL SERVICES

EDUCATION

The Glen Alpine schools serve an area from Lake James on the north and west to Little Silver Creek on the east and southward about halfway to the county line. The system is one of three in the county -- the others being the Morganton City Schools and the Burke County Schools. All of the schools in the Glen Alpine system are located on London Street in Glen Alpine with the exception of the Glen Alpine Junior High School on Cathy Road about three miles west of town.

Inventory and Analysis

The computation of future enrollments is difficult because of a lack of good base information from which to make projections. However, to have a guide for future school needs an attempt has been made to estimate the future school district population. This was accomplished by using the Silver Creek Township population projection percentage increase for 1987 and multiplying it by the current enrollment. While this is not necessarily the best method, it is felt that the result is a good guide, though perhaps conservative.

The following inventory, information and evaluation were obtained through consultations with Mr. Earl C. Whitener, Superintendent of Glen Alpine City Schools, and from the "Burke County School Survey, 1963", conducted by the Division of School Planning, N. C. Department of Public Instruction.

Glen Alpine Elementary - Grades 1-6. Part of a 22-acre complex used by the High School also. Building assigned for use built in 1920, remodeled in 1949, additions 1955, 1956. The building is obsolete and should be torn down.

Present average enrollment -- 927
Present estimated capacity -- 992
Anticipated enrollment by 1987 -- 1,140
Present number of classrooms -- 31 plus (2 mobile units)
a:
-- Cafeteria - inadequate
-- Library - adequate
-- Auditorium - barely adequate.

Glen Alpine Senior High - Grades 9-12. Part of a 22-acre complex used by the Elementary School. Buildings assigned for use built in 1933 with additions in 1951 and 1965. Old part in need of remodeling.

Present average enrollment -- 456
Present estimated capacity -- 640
Anticipated enrollment by 1987 -- 561
Present number of classrooms -- 20, plus
a:
-- Library - adequate
-- Agricultural shops - barely adequate
-- Gymnasium - barely adequate
-- Auditorium and cafeteria in conjunction with the Elementary School.

Glen Alpine Junior High. Grades 7 and 8. Site size is 12 acres which is not adequate for a full junior high school program. Built in 1956 with additions in 1962.

Present average enrollment -- 313
Present estimated capacity -- 160, not counting mobile units
Anticipated enrollment by 1987 -- 385
Present number of classrooms -- 10, of which 5 are mobile units, plus
a:
-- Cafeteria - adequate
-- Library - adequate.

Current Plans and Recommendations

Present plans call for remodeling of the Junior High School and the addition of one classroom by the Fall of 1968. Plans are also being made to remodel the Senior High School, hopefully by the Fall of 1968. No other plans have been formulated since the defeat of a school bond referendum and merger in

December, 1967. At that time it was planned to build a consolidated high school somewhere in the Glen Alpine School District. Some discussion has been carried on relative to a merger of the Morganton and Glen Alpine Senior High Schools into a new Senior High School somewhere between the two towns. This plan has been shelved pending the outcome of another bond referendum on county-wide consolidation scheduled for November, 1968.

A total of at least 11 new classrooms will be needed by 1987. It is recommended that a new Senior High School be built. A likely site would be off Hennessee Street on property now owned by the School Board. This would allow the old elementary building to be razed and the use of the present Senior High School by the elementary students. Additions will also be necessary at the Junior High School at least to the extent of enough classrooms to eliminate the use of mobile units. In both the Senior and Junior High School, the sites should be increased to meet the following recommendation by the North Carolina Department of Public Instruction.

Junior High should be a minimum of 20 acres plus one additional acre for each 100 students of ultimate maximum enrollment.

Senior High should be a minimum of 30 acres plus one additional acre for each 100 students of ultimate maximum enrollment.

Parking at the present Elementary and Senior High School site is grossly inadequate. This situation should be rectified as soon as possible as the present layout for parking and vehicle movement brings the children into direct opposition with vehicles. The present site may be able to handle this problem but further detailed study will be needed. Should the Senior High be moved to a new location, the present parking facilities would then be adequate.

LIBRARY

No library presently exists in the Planning Area, but rather library service for the community comes from the Burke County Library in Morganton. In addition to having access to the library, bookmobile service is provided for the citizens of Glen Alpine. While it might be desirable to have a library in Glen Alpine, it appears that the present system has worked well. Therefore, it is felt that no library will be needed during the 20-year planning period. However, it would be desirable, if school authorities will approve, to have the school libraries open during the summer months for the children. It could be staffed by the Womans' Club as a service project.

RECREATION

Glen Alpine has about 10 acres of land that are used for recreation in one form or another. This consists of two ballfields in town (one for school use only), and one ballfield in the fringe area. The Womans' Club building and grounds, though limited, can be used for some recreational activity. Thus, the present recreational facilities are such that there is only one acre of recreation space for every 208 persons. As noted in the Land Use Survey and Analysis and Land Development Plan, it is desirable that the national standard of one acre for every 100 persons be met. Therefore, a need exists for an additional 15 acres of recreational space in the planning area by 1987.

Recommendations. Establish in conjunction with the County, a recreation commission to coordinate, staff and operate a recreation program and the recreation facilities of the community. This program should be for all ages and could be staffed during the summer months by teaching personnel from the local schools. Additional school recreation facilities could also be used to enhance the program.

Obtain and develop an 8-acre park-playground off Pea Ridge Street between said street and the Womans' Club building. This recreation area would serve both as a neighborhood recreation area and a townwide recreation center. Slides, swings, picnic tables, sandlot ballfield, tennis courts, are a few of the facilities that should be placed in the park. The park-playground should be acquired and developed as soon as possible, but in any event not later than 1971.

Other recreation areas suggested in the Land Development Plan will not be needed until the latter part of the planning period. The following should be established in the order indicated as sufficient development occurs and it becomes evident that they will be needed:

- off Lail Road (SR 1225), a 2-acre playground for the neighborhood with swings, slides, etc.
- off London Street Extension (SR 1168), a 2-acre playground for the neighborhood with swings, slides, etc.
- off US 70 west, a 3-5-acre park-playground for use of the neighborhood and travellers. Swings, slides, picnic tables, sandlot ballfield, etc., should be placed in the recreation site.

Several methods of acquiring and developing land for present and future park and recreation activities are available to Glen Alpine. Every possible method of financing should be utilized to see that these recreation facilities are provided. Some of the methods are:

Gifts -- Gifts of land or monies. The gift of land that is properly located, adequate in size, and easily maintained and developed may be accepted; however, if they are not, perhaps they could be exchanged for more desirable sites. One or more of the local civic clubs or church groups might well develop a park or part of a park.

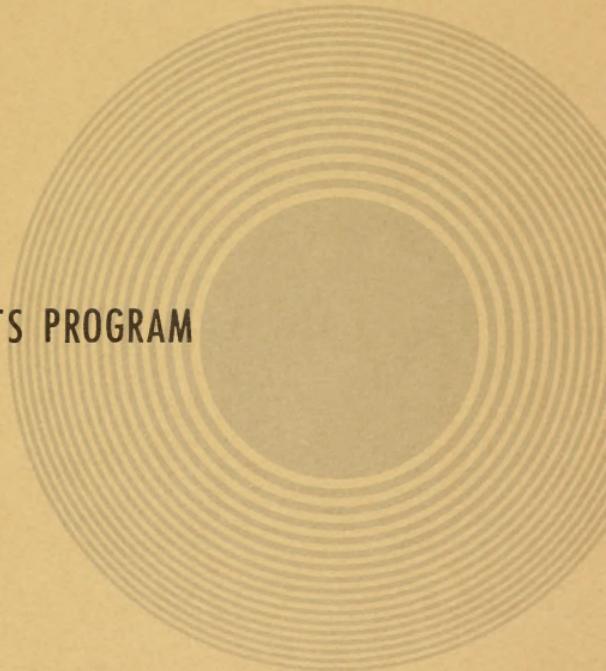
Purchase -- The town may purchase land in desirable locations, particularly in undeveloped areas where the land is cheaper. (A special tax, not more than ten cents on each one-hundred dollars of assessed valuation of the taxable property within the town, according to NC General Statutes, could be used.)

Open Space Land Program -- Title VII of the Housing Act of 1951 (as amended) provides for the making of grants by the Federal Government, Department of Housing and Urban Development, to local public bodies to assist them in acquiring and developing permanent interest in land for open space uses. The maximum grant available is 50 per cent.

Land and Water Conservation Program -- This program has created a land and water conservation fund from which Congress may appropriate money to provide public outdoor recreation facilities. It is administered by the Bureau of Outdoor Recreation, U.S. Department of Interior, through the appropriate State agency (N.C. State Planning Task Force). Grants of up to 50 per cent of the cost of planning, acquiring and developing public outdoor recreation areas and facilities are available if the proposed projects are in accord with North Carolina's comprehensive statewide outdoor recreation plan.

None of the improvements listed in this study will occur overnight. Nor will they take place without the expenditure of much time and effort on the part of the citizens of the community -- not to mention monies. By using this Community Facilities Plan and the accompanying Public Improvements Program as a guide, and beginning now, the community can alleviate present deficiencies and avoid future ones.

PUBLIC IMPROVEMENTS PROGRAM



INTRODUCTION

The Public Improvements Program is a comprehensive program which identifies and lists public improvements, existing and projected, for a 20-year period concluding in 1987. It is based on other plan elements and establishes a priority schedule with an appropriate justification for each improvement.

The purpose of this program is to provide the citizens and officials of Glen Alpine with an understanding of the services that are needed now and will be needed in the next 20 years. By use of the program, the town will be better prepared to make the decisions necessary to reach the desired goals with a minimum of expense.

IMPLEMENTATION AND FINANCING

The schedule of improvements on the following pages is intended as a general guide and is therefore flexible. Periodic review and updating of this program will be necessary every few years to insure that the needs of the community at that time will be met. Consequently, some items may need to be moved up or back in the schedule or new ones added, depending on conditions and the needs of the community at the time.

Current town revenues will be used generally to finance needed public improvements and this is considered the best method as it is the least costly. However, when sufficient financing is not available a bond issue is usually recommended. Bonds will undoubtedly be necessary for the installation of a sewerage system -- if, indeed, one is ever put in.

METHOD OF SCHEDULING IMPROVEMENTS

All prior planning and supporting studies of the Town of Glen Alpine, with their attendant public facilities recommendations, are combined in this report. A priority schedule based on need, and to some extend cost, was established. It should be noted that in some cases additional engineering studies will need to be made prior to any construction. Particularly is this true with regard to water and sewer recommendations.

TENTATIVE PROJECT SCHEDULE

1968-1972 IMPROVEMENT

TOWN HALL

1. Purchase about one-half acre beside present Town Hall for future expansion of building and storage yard. (See Town Garage and Storage Yard)

To provide land for needed expansions.

FIRE DEPARTMENT

2. Purchase an additional pumper by 1969.
3. Construct an additional "bay" by 1969.
4. Recruit 9 additional volunteers as soon as possible.

To provide adequate fire protection inside town when the other pumper must go outside.

To provide shelter for the new pumper.

To provide sufficient personnel to operate the department without a hardship on any.

1968-1972

IMPROVEMENT

POLICE DEPARTMENT

5. Hire an additional full-time officer by 1969.
6. Increase salaries immediately.
7. Purchase police car equipped with a two-way radio by 1971.
8. Purchase a speed detection device by 1971.

JUSTIFICATION

To help relieve the present two-man force and provide additional protection for the town.

To improve the department and encourage officers to stay with the department.

Needed to provide better transportation for the men who presently use personal cars. No radio presently, but one is needed for quick contact with other law officers in the county.

Needed to better enforce the speed limits in town particularly on Main Street.

CIVIL DEFENSE

9. Institute a civil defense program of information and shelters. (Can be done part-time by a retired person.)

No program is presently available.

WATER SYSTEM

10. Build a 100,000 gallon elevated storage tank by 1971.
11. Drill an additional well by 1972.

To provide adequate elevated storage of water for use in the town. Would also increase the amount of water available to fight a large fire, such as at the school.

Will depend on engineering studies in relation to the new elevated water storage tank but will probably be needed to meet the increasing demand for water.

1968-1972

IMPROVEMENT

JUSTIFICATION

12. Replace 2" line extending from the well in the Giles Subdivision to and northward in SR 1168 with a 6" main to the 6" main at the town limits.

13. Replace the 2" line extending from the 6" main in the Giles Subdivision with a 6" main to SR 1168.

14. Replace 2" line extending from the 6" main in Bright Street and westward in Bright Street Extension with a 6" main; also, continue the 6" main southward in the new street to Linville Street.

15. Install a 6" main from the 6" main in Giles Street northeastward in Giles Street to the 6" main in Allen Street.

16. Replace the 4" main from the well off Ball Park Street with a 6" main to tie in with the 6" main in Ball Park Street.

17. Replace the 2" line extending from the 6" main in Main Street eastward with a 6" main along US 70 to SR 1150.

18. Replace the 2" line extending from Hennessee Street with a 6" main to the proposed high school site.

Installation of this line will be dependent on the construction of a new high school at the site.

Lines less than 6" do not supply an adequate volume of water for the people to be served; also, to increase the water volume flow from the well, and fire flow.

Will provide an increased volume of water for use by the residents of the area, plus fire flow; provide a complete 6" main loop.

To provide adequate water volume to people being served in the area, plus fire flow; to eliminate a deadend.

To eliminate a deadend.

To provide better water volume from the well.

Lines less than 6" do not supply sufficient volume of water for the number of persons in the area; plus fire flow.

1968-1972

IMPROVEMENT

STREET SYSTEM

<u>IMPROVEMENT</u>	<u>JUSTIFICATION</u>
20. Relocate the Southern Railroad overpass. Widen to a 22-24 foot pavement cross section:	To provide better and safer movement of traffic across the railroad and to replace inadequate wooden overpass.
21. London Street (SR 1168)	
22. Linville Street (SR 1223)	
23. Catawba Street (SR 1147)	
24. SR 1225 (Lail Road)	
25. Pea Ridge Street (SR 1226)	
26. Bright Street Extension--pave.	To provide adequate street for movement of increasing vehicle volume.
27. Leonard Street - extend through to Linville Street and pave.	To improve traffic circulation in the area for the increasing number of persons living there.
28. Install street name signs. No markers are presently visible.	

TOWN GARAGE AND STORAGE YARD

29. In conjunction with Town Hall improvements, acquire town equipment from the elements sufficient property adjacent to the Town Hall for a fenced storage yard with shelters, which will be needed by 1971.	To properly store and protect persons from entering the premises.
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REFUSE COLLECTION AND DISPOSAL

30. Employ another full-time employee by 1969.	To institute twice weekly pickups. He can also assist in other endeavors and will be available when the present full-time employee retires.
31. Increase refuse collection to twice a week by 1969.	For health reasons.

1968-1972

IMPROVEMENT

JUSTIFICATION

(While schools are not the responsibility of the town but of the Glen Alpine School District School Board and the County, the town should encourage the improvements of the school system.)

EDUCATION

32. Build a new Senior High School for about 600 or more by 1970.	To relieve the present crowded condition and to provide the students with the best possible educational facilities.
33. Tear down the old elementary building.	It is a safety hazard.
34. Construct at least six classrooms at the Junior High by 1970.	To relieve crowded conditions and eliminate the use of mobile units.
35. Provide additional paved parking space at the present elementary and senior high schools immediately.	To eliminate conflicts with vehicles and students and to remove vehicles from the streets.

RECREATION

36. Acquire about eight acres off Pea Ridge Street and between said street and the Womans' Club Building for a park-playground.	To provide recreation areas for citizens of the town and neighborhood.
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1973-1977

IMPROVEMENT

TOWN HALL

37. Construct a Town Hall Annex adjacent to the present Town Hall with at least two offices; conference room for 40-50 people by 1975.

WATER SYSTEM

38. Replace the present pickup truck as soon as it becomes uneconomical to operate.

39. Replace 2" line extending from the 6" line in Linville Street northward in Lail Road with a 6" main to about SR 1208 and continue a new 6" main eastward to tie in with the 6" main in Parker Street.

40. Replace the 2" line extending from the 6" main at the intersection of Hennessee and Main Streets westward along US 70 with a 6" main to about SR 1278 and extend the new 6" main on westward to the intersection of SR 1145 and US 70.

41. Replace the 2" line extending north in Catawba Street from the 6" main in Catawba Street with a 6" main to the town limits.

JUSTIFICATION

To provide adequate space to carry on the town's business, and relieve the increasingly crowded conditions in the present facility.

To have adequate up-to-date equipment.

Lines less than 6" do not supply sufficient volume of water to the number of persons in the area, plus fire flow; also, to eliminate a deadend.

Lines less than 6" do not supply sufficient volume of water to the number of persons in the area, plus fire flow; also, to supply developing residential areas.

Lines less than 6" do not supply sufficient volume of water to the number of persons in the area, plus fire flow; also to eliminate a deadend.

1973-1977

IMPROVEMENT

42. Install a 6" main from the 6" main at the end of Allen Street Extension northward to the proposed 6" main along US 70 east.

JUSTIFICATION

Installation will depend on development in this area. It will eliminate a deadend and provide sufficient water volume to the area for fire flow and residential use.

SEWER SYSTEM

43. By 1975 a sewerage disposal system should be installed. (Engineering studies should already have been completed so that actual work can begin.)

To eliminate the growing problems that will occur relative to sewerage as the population density increases.

STREET SYSTEM

Widen and pave:

44. Parker Street
45. Streets off Parker and Reep
46. Ball Park Street
47. Allen Street
48. Allen Street Extension

To provide adequate streets for movement of increasing vehicular traffic.

Pave:

49. The new street off Ball Park Street
50. Streets in the Giles Subdivision
51. Hennessee Street Extension
52. SR 1278
53. SR 1146
54. SR 1145
55. SR 1227

56. SR 1208 - widen and pave for at least 2,500 feet

57. Widen and pave all other short unpaved streets in town and adjacent to town.

1973-1977

IMPROVEMENT

POLICE DEPARTMENT

58. Purchase a new police car by 1975 to replace the one purchased in 1971.

JUSTIFICATION

To bring equipment up to date.
(Police cars should be replaced every two to four years - depending on use.)

RECREATION

59. Develop the 8-acre park-playground off Pea Ridge Street with swings, slides, picnic tables, tennis courts, sandlot ballfield, etc.

Needed to provide adequate recreation facilities for the citizens of the neighborhood and town.

60. Acquire about two acres off Lail Road (SR 1225) for a neighborhood playground - develop as the area becomes more densely population.

Same as above.

61. Acquire about two acres off London Street Extension (SR 1168) for a neighborhood playground. Develop as the area becomes more densely populated.

Same as above.

62. Acquire from three to five acres off US 70 for a park-playground and develop as a neighborhood recreation and for the travelling public.

Same as above.

1978-1987

IMPROVEMENT

JUSTIFICATION

FIRE DEPARTMENT

63. Replace the 1959 Ford pumper by 1979.

Pumpers 20 years old are generally considered to be obsolete.

POLICE DEPARTMENT

64. Hire an additional full-time officer by 1980 (to bring the department to four).

To provide adequate protection and relieve the workload of the force.

REFUSE COLLECTION AND DISPOSAL

65. Replace the 1966 dump truck (Ford) by 1981.
(Or when the cost of maintenance becomes excessive.)

To provide functional and up-to-date equipment.

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